

Quantitative MSAT Study Area, July 2021 Continuous Capture - NC Department of Transportation

File Geodatabase Feature Class



Tags

Air Quality, Project Vicinity, Quantitative, Mobile Source Air Toxics, MSAT, Air Quality Report, AQR, Transportation, NCDOT, Environment, Location, Boundaries, Atmospheric Sciences, Health, North Carolina, ATLAS

Summary

This dataset was originally created in December 2019 and updated in July 2021 as part of the Project ATLAS initiative at NCDOT to support project delivery in the development phase. This dataset is a continuously updated compilation of locations of projects that had a Quantitative MSAT study completed during the creation of the Air Quality Report for transportation projects.

Description

The Quantitative MSAT dataset is a polygon layer in a statewide GIS dataset, for locations of projects that have a Quantitative Mobile Source Air Toxics (MSAT) study completed and identified during the Air Quality Report (AQR) work during project development for NCDOT. This data is gathered per transportation project and compiled into one statewide GIS dataset to be used for future transportation planning and project development. This dataset is continuously updated with new records as Air Quality Reports are completed per transportation project during environmental analysis and project development.

Datasets developed under Project ATLAS do not replace any Air Quality Report work for future projects and may not be used as a replacement for site visits / field surveys by licensed professionals and hence should be used only as a supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

Credits

Various consulting firms, contracted by NCDOT to conduct Air Quality Report work for transportation projects, contribute to this dataset. Additional contributors to this dataset are members of the NCDOT Environmental Analysis Unit. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDOT's Transportation GIS Unit.

Use limitations

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

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Extent

There is no extent for this item.

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:625,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE health, climatologyMeteorologyAtmosphere, boundaries, location, transportation, environment

* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS North Carolina

THESAURUS ►

TITLE User

PUBLICATION DATE 2021-07-15 00:00:00

CREATION DATE 2021-07-15 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS Air Quality, Project Vicinity, Quantitative, Mobile Source Air Toxics , MSAT, Air Quality Report, AQR, Transportation, NCDOT, Environment, Location, Boundaries, Atmospheric Sciences, Health, North Carolina, ATLAS

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Hide Topics and Keywords ▲

Citation ►

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CREATION DATE 2021-07-15 00:00:00

PUBLICATION DATE 2021-07-15 00:00:00

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

Hide Citation ▲

Citation Contacts ►

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

CONTACT'S POSITION Environmental Program Consultant

CONTACT'S ROLE resource provider

CONTACT INFORMATION ►

PHONE
VOICE 919-707-6136

ADDRESS
TYPE physical
DELIVERY POINT 4101 Capital Boulevard
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27604
COUNTRY US
E-MAIL ADDRESS ATLAS@ncdot.gov

HOURS OF SERVICE
9:00am – 5:00pm Monday - Friday

CONTACT INSTRUCTIONS
Please send an email with any issues, questions or comments regarding the ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

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CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE point of contact

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[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS on-going
SPATIAL REPRESENTATION TYPE vector

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.5.1.7333

CREDITS

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ARCGIS ITEM PROPERTIES

- * NAME QuantMSAT
- * LOCATION file:///dot.nc.net/DFSROOT01/Groups-GISNH/GIS-ProjAtlas/ProjectDocumentation/Standards/Metadata/00MD/GDBReview/ATLAS_Standards_Template_Geo database_v13.gdb
- * ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION

Temporal extent is ongoing. Data collection will continue indefinitely.

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -84.422111
EAST LONGITUDE -75.416034
SOUTH LATITUDE 33.730557
NORTH LATITUDE 36.617257

TEMPORAL EXTENT

BEGINNING DATE 2021-07-08 00:00:00

ENDING DATE 2021-07-15 00:00:00

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY continual

SCOPE OF THE UPDATES dataset

MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

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[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

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[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

* TYPE Projected

* GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983

* PROJECTION NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet

* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102719
X ORIGIN -121841900
Y ORIGIN -93659000
XY SCALE 3048.0060960121928
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.0032808333333333331
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 2264
WELL-KNOWN TEXT
PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert_Conformal_Conic"],PARAMETER["False_Easting",2000000.002616666],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-79.0],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666666],PARAMETER["Latitude_Of_Origin",33.75],UNIT["Foot_US",0.3048006096012192],AUTHORITY["EPSG",2264]]

REFERENCE SYSTEM IDENTIFIER
VALUE 2264
* CODESPACE EPSG
* VERSION 6.12(9.0.0)

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►
* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS
FEATURE CLASS NAME QuantMSAT
* OBJECT TYPE composite
* OBJECT COUNT 0

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►
FEATURE CLASS NAME QuantMSAT
* FEATURE TYPE Simple
* GEOMETRY TYPE Polygon
* HAS TOPOLOGY FALSE
* FEATURE COUNT 0
* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Data Quality ►

SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

DATA QUALITY REPORT - FORMAL CONSISTENCY ►

MEASURE NAME Data Standards

MEASURE DESCRIPTION

Completeness, consistency, positional and attribute accuracy are solely dependent upon entities contributing to this dataset. The NCDOT ATLAS Workbench application performs quality control checks on data coming into the enterprise database ensuring that schema is consistent. Checks are made for file name, attribute names, attribute types, attribute length/scale/precision, project number of the feature class vs the values in the ProjNumber field, and date.

EVALUATION METHOD

Data submitted to the ATLAS gateway through the Workbench tool must follow standards outlined in the ATLAS Standards Document.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

The ATLAS Workbench has a validation tool that checks every dataset being uploaded to the SDE Database and rejects any that do not follow the ATLAS Standards Document.

PRODUCT SPECIFICATION ►

TITLE ATLAS Standards Document

PUBLICATION DATE 2021-07-15 00:00:00

CREATION DATE 2021-07-15 00:00:00

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

CONTACT'S POSITION Environmental Program Consultant

CONTACT'S ROLE originator

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Product specification ▲](#)

[Hide Data quality report - Formal consistency ▲](#)

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

Records for this dataset are collected and added as Air Quality Reports and their associated geospatial data are delivered via the NCDOT ATLAS Workbench web application. When a project team, hired to complete an Air Quality Report for a particular project, uploads their Air Quality Report geospatial data into the ATLAS Workbench application, that data is QA/QC'd to ensure schema consistency and if schema is correct that data is appended to the Quantitative MSAT dataset in the ATLAS SDE. That data is then published as a REST service to be used by web mapping applications. This layer replaces the previously used Air Quality Project Vicinity layer.

PROCESS STEP ► DESCRIPTION

Quantitative MSATs are collected by various contractors conducting field work as part of Air Quality Report preparation for transportation projects. Field staff use mapping-grade GPS units to record observations. GPS units should be loaded with the appropriate data dictionary files (.ddf) from NCDOT if they are available for the type of data being collected.

PROCESS CONTACT

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

The zip shapefile is placed on SharePoint in the ATLAS folder under the appropriate project number and discipline folder.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

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[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

If the data does not pass validation then user receives feedback to upload corrected dataset.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

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PROCESS STEP ►

DESCRIPTION

Contractors refer to Standards Document and copy out the Quantitative MSAT template shapefile. The data collected offsite is compiled into this template and zipped up on the contractor's local machine.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
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[Hide Process step ▲](#)

PROCESS STEP ►
DESCRIPTION

The contractor then signs on to the Sharepoint Connect site and navigates to the appropriate project and then over to the ATLAS Workbench and the appropriate discipline. In this case it is Air. The data is then uploaded via the Workbench tool by the contractor for validation of the data.

PROCESS CONTACT

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[Hide Process step ▲](#)

PROCESS STEP ►
DESCRIPTION

QA/QC is conducted on the uploaded data by the ATLAS validation tool, which checks for filename, schema and geometry. If the data passes validation then it is appended to Quantitative MSAT into Edit SDE. The tool writes the URL for the layer to the Edit SDE in the DOC_URL field. Edit SDE is replicated to Pub SDE. Data is now visible as a web service layer.

PROCESS CONTACT

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[Hide Process step ▲](#)

[Hide Lineage ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE distributor

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

VERSION 10.5

[Hide Distribution](#) ▲

Fields ►

DETAILS FOR OBJECT [QuantMSAT](#) ►

* TYPE Feature Class

* ROW COUNT 0

DEFINITION

Locations of projects that had a Quantitative Mobile Source Air Toxics (MSAT) study completed

DEFINITION SOURCE

NCDOT

FIELD [OBJECTID](#) ►

* ALIAS OBJECTID

* DATA TYPE OID

* WIDTH 4

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Internal feature number.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

[Hide Field OBJECTID](#) ▲

FIELD [SHAPE](#) ►

* ALIAS SHAPE

* DATA TYPE Geometry

* WIDTH 0

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Feature geometry.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Coordinates defining the features.

[Hide Field SHAPE](#) ▲

FIELD [ProjNumber](#) ►

ALIAS ProjectNumber

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

DOT Project Number (TIP etc.)

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Free Text

DESCRIPTION DOT Project Number

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

BEGINNING DATE OF VALUES 2019-02-01

[Hide Field ProjNumber ▲](#)

FIELD [DateCreate ►](#)

ALIAS DateCreated

* DATA TYPE Date

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Date shapefile was compiled

DESCRIPTION SOURCE

NCDOT

RANGE OF VALUES

MINIMUM VALUE 2019

MAXIMUM VALUE 3000

BEGINNING DATE OF VALUES 2019-02-01

[Hide Field DateCreate ▲](#)

FIELD [ContName ►](#)

ALIAS ContractorName

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Internal Field for name of Contractor that collected and produced the data. This field is automatically populated by an ATLAS script and is for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE

NCDOT

BEGINNING DATE OF VALUES 2019-02-01

[Hide Field ContName ▲](#)

FIELD **RptName** ▶

ALIAS **ReportName**

* DATA TYPE **String**

* WIDTH **254**

* PRECISION **0**

* SCALE **0**

FIELD DESCRIPTION

Report name associated with the shapefile.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE **Free Text**

DESCRIPTION **Report name associated with the shapefile**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **NCDOT**

BEGINNING DATE OF VALUES **2019-02-01**

Hide Field RptName ▲

FIELD **DocURL** ▶

ALIAS **DocumentURL**

* DATA TYPE **String**

* WIDTH **254**

* PRECISION **0**

* SCALE **0**

FIELD DESCRIPTION

Document URL for SharePoint.

Internal Field for Document URL for location on Sharepoint. This field is automatically populated by an ATLAS script and is for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE

NCDOT

BEGINNING DATE OF VALUES **2019-02-01**

Hide Field DocURL ▲

FIELD **Notes** ▶

ALIAS **Notes**

* DATA TYPE **String**

* WIDTH **254**

* PRECISION **0**

* SCALE **0**

FIELD DESCRIPTION

User notes

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE **Free Text**

DESCRIPTION **User Notes**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **NCDOT**

BEGINNING DATE OF VALUES **2019-02-01**

Hide Field Notes ▲

FIELD **FromDate** ▶

* ALIAS FromDate
* DATA TYPE Date
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Internal Field for start of validity of data. This field is automatically populated by an ATLAS script and is for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE

NCDOT

BEGINNING DATE OF VALUES 2019-02-01

Hide Field FromDate ▲

FIELD **ToDate** ▶

* ALIAS ToDate
* DATA TYPE Date
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Internal Field for end of validity of data. This field is automatically populated by an ATLAS script and is for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE

NCDOT

BEGINNING DATE OF VALUES 2019-02-01

Hide Field ToDate ▲

FIELD **SProjID** ▶

ALIAS SharepointProjectID
* DATA TYPE String
* WIDTH 254
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Internal Field for Sharepoint Project ID. This field is automatically populated by an ATLAS script and is for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE

NCDOT

BEGINNING DATE OF VALUES 2019-02-01

Hide Field SProjID ▲

FIELD **SHAPE_Length** ▶

* ALIAS SHAPE_Length

- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Length of feature in internal units.
- * DESCRIPTION SOURCE
Esri
- * DESCRIPTION OF VALUES
Positive real numbers that are automatically generated.

Hide Field SHAPE_Length ▲

FIELD SHAPE_Area ►

- * ALIAS SHAPE_Area
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Area of feature in internal units squared.
- * DESCRIPTION SOURCE
Esri
- * DESCRIPTION OF VALUES
Positive real numbers that are automatically generated.

Hide Field SHAPE_Area ▲

FIELD DesignYr ►

- * ALIAS DesignYear
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Year of design for which Quantitative MSAT was performed
- DESCRIPTION SOURCE
NCDOT

Hide Field DesignYr ▲

FIELD AADT ►

- * ALIAS AADT
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

AADT on which Quantitative MSAT was performed

DESCRIPTION SOURCE

NCDOT

[Hide Field AADT ▲](#)

FIELD **ModelVer** ►

* ALIAS EPAModelVersion

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

EPA Mobile Source Emission Model and Version on which Quantitative MSAT was performed (e.g. MOVES2014a)

DESCRIPTION SOURCE

NCDOT

[Hide Field ModelVer ▲](#)

FIELD **ProjURL** ►

* ALIAS ProjectURL

* DATA TYPE String

* WIDTH 300

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Internal Field for Sharepoint folder location URL. This field is automatically populated by an ATLAS script and is for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE

NCDOT

[Hide Field ProjURL ▲](#)

[Hide Details for object QuantMSAT ▲](#)

[Hide Fields ▲](#)

Metadata Details ►

METADATA LANGUAGE English (UNITED STATES)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

SCOPE NAME * dataset

* LAST UPDATE 2021-06-15

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE ISO 19139 Metadata Implementation Specification

STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2020-03-11 12:50:30
LAST MODIFIED IN ARCGIS FOR THE ITEM 2021-06-15 14:10:44

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2021-06-15 14:10:44

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6136

ADDRESS

TYPE physical

DELIVERY POINT 4101 Capital Boulevard

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27604

COUNTRY US

E-MAIL ADDRESS ATLAS@ncdot.gov

HOURS OF SERVICE

9:00am – 5:00pm Monday - Friday

CONTACT INSTRUCTIONS

Please send an email with any issues, questions or comments regarding the ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY as needed

MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Metadata Maintenance ▲](#)

Metadata Constraints ►

SECURITY CONSTRAINTS

CLASSIFICATION unclassified
CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

The North Carolina Department of Transportation shall not be held liable for any errors in this metadata. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

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CONSTRAINTS

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[Hide Metadata Constraints ▲](#)

Thumbnail and Enclosures ►

THUMBNAIL

THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)